

November 21, 1952

Project No.  
1-1289E

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At the time of your recent visit to [redacted] you expressed an interest in the gas mantel type infrared sources. This has been developed for the Engineer Research and Development Laboratories under Contract EA-44-009-eng-452. Copies of the reports should be available from Mr. Myron W. Klein of the Radiation Section at ERDL.

The development contract has not been completed; however, several models have been delivered to ERDL, and they are contemplating having a manufacturer produce a small quantity of these lamps in the very near future.

I am also attaching copies of the minutes of the meeting held in my office.

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Physics and Electrical  
Engineering Division

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[illegible]

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MINUTES OF STEERING COMMITTEE MEETING

[REDACTED]  
Project No. 1-1289E  
November 12, 1952

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A Steering Committee meeting for Project 1-1289E was held on  
November 12, 1952. [REDACTED]

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of [REDACTED]

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[REDACTED] attended. The overall  
project schedule was discussed, various technical details clarified,  
and project progress reviewed.

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The first phase of the program will be concerned with trans-  
ducers. It will be broad in scope to allow consideration of as many sensing  
elements as possible. After this study is completed it will be possible  
to determine which specific sensing elements should be investigated further.

[REDACTED] indicated that since their company already had a background  
in sensing elements classified under the general headings of "Radio  
Signals" and "Physical Disturbances", the study of these items should be  
postponed, while those under "Light Change" and "Temperature Change" should  
be given preference over those in the remaining groups. Both passive  
and active sensing systems should be considered. A technical report will  
be submitted at the end of the study phase.

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Technical aspects of the various types of transducers were  
discussed and the following clarifications made:

Temperature Change - Measurement of small temperature changes  
near room temperature is of major importance. Very short response time  
is not necessary. Temperature changes and rate of temperature change, are  
to be considered over the approximate temperature range of 100°C. to -40°C.

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Barometric Change - Consideration should be given to detection of any perturbation manifesting itself as a pressure variation. Extremes of pressure likely to be encountered may be described as those pressures occurring between sea level and 60,000 feet above sea level.

Noise - The interpretation to be given to "noise" should be the more general term "sound", in that both systematic and random noise is to be considered.

Lightning Stroke - The electromagnetic spectrum of a lightning discharge is of primary concern, while the light spectrum may be of some interest as well.

Body Capacity - This type of transducer should be considered in the broader sense to include any effect due to proximity of a person and the transducer.

Periodic Motion - Transducers in this classification could be sensitive to oscillation, duration of oscillation, or lack of motion. The frequency range to be considered is from 0 to approximately 25 cps.

Concussion in Air and Water - "Concussion" will be considered as a compression wave with a steep front.

Representatives of  present  
reported on the progress of the project to date. This work was primarily concerned with detection of temperature changes and radio signals. Future work on the project was also discussed. It was suggested that a work schedule of the project be included in the next letter report. Another Steering Committee Meeting will be held near the middle of December.

Respectfully submitted,